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RAW SEQUENCE LISTING

PATENT APPLICATION N: US/09/849,529A

DATE: 01/23/2002

TIME: 17:15:41

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Input Set : D:\pa_00349.txt

Output Set: N:\CRF3\01232002\I849529A.raw

1 <110> APPLICANT: Fincher, Karen L.
2 Ziegler, Todd E.
4 <120> TITLE OF INVENTION: Nucleic Acid Molecules And Other Molecules Associated With
5 Plants
7 <130> FILE REFERENCE: 38-21(51893)B
9 <140> CURRENT APPLICATION NUMBER: US 09/849,529A
10 <141> CURRENT FILING DATE: 2001-05-07
12 <150> PRIOR APPLICATION NUMBER: US 60/196,868
14 <151> PRIOR FILING DATE: 2000-05-09
16 <160> NUMBER OF SEQ ID NOS: 24076
18 <210> SEQ ID NO: 1
19 <211> LENGTH: 592
20 <212> TYPE: DNA
21 <213> ORGANISM: Gossypium hirsutum
23 <220> FEATURE:
24 <223> OTHER INFORMATION: Clone ID: LIB3543-001-Q1-K1-A1
26 <400> SEQUENCE: 1
28 ccaagcaagt ttggagaagt tctcaagcgc tactaatcca gatgttggtg aacagagctc 60
30 gaatagtttg gctgagaagg caaacaaaqa gatggcctcg gcagtgaaat gctcggcgga 120
32 gaagatgaag aacgaatgq ccatgacagt aaatagctcc actgaqaga tgaaaagaga 180
34 gacaacttca ataaagagct cagcggagaa gatgaacaaa gagacagcct tgaataaaa 240
36 taactcagct gagaagatga aqaagaaac atcattaaat agctcaqctg agaagatgag 300
38 tcaagataa ca gttgcagaaa atggttcagc tgaataaata aagaagagga cagccttgac 360
40 agtaaatatc tcagctgaga agatgaacaa agagacagcc ttgacaataa ataactcagc 420
42 tgagaagatg aacaaagaga tggccaggac agtgaatagc tcagctgaga agatgagaca 480
44 agagacagct acagttaatt gctcggctga gaagatgaag aaagaagcgg ccttgacagt 540
46 aagagagctc aacgaagaaq tgaagaaqa aacagccttg acaqtaata ac 592
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50 <211> LENGTH: 531
51 <212> TYPE: DNA
52 <213> ORGANISM: Gossypium hirsutum
54 <220> FEATURE:
55 <223> OTHER INFORMATION: Clone ID: LIB3543-001-Q1-K1-A10
57 <400> SEQUENCE: 2
59 cccacgcgtc cgcacacgcg tccgcggaaa aaaagggatc qgggtctcaa cttctgttt 60
61 ttaactcctt ttattacatg ccagtttqca tccagttatc agcctcatta atgttattt 120
63 gattttttt tttaatttg atattttga cttacttga attctgaa ttatattt 180
65 atactttga atattttg aaaaattt aagcctttt aattattt atgtatgatt 240

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78 <210> SEQ ID NO: 3
79 <211> LENGTH: 578
80 <212> TYPE: DNA
81 <213> ORGANISM: Gossypium hirsutum
82 <220> FEATURE:
83 <223> OTHER INFORMATION: Clone ID: LIB3543-001-Q1-K1-A11
84 <400> SEQUENCE: 3
88 ccaacgcgtc cgtcagatt ttctctcagt gttaaatagt gaaacgatgt ccactgtcgt 60
90 aqaagctgct tctctttaag ctgctcttat tctttatgat gatggcatcc ccatcaccgc 120
92 tgaqaagatt tctacactag ttaaaagctgc aaatgtctct gttgaatcct actggccaa 180
94 ctgttctcgt aagctttttg aqaagtgcaa cattgagqat ctcataacca atgttgagc 240
96 ttgttggtgt ggtgcctcag tagctgcagc tgcacctgtt cctgctggcg gaggagccgc 300
98 tctctctgct ccaactctct ctgaagaaaa gaaggaagaa ccggaggaag agagtgatga 360
100 cgatatggga ttacgtttgt ttgattaggt gtgttttggt caattactag ttatatcaca 420
102 tgaagtgtagt aacgttttta gagtgtatt cctattggta ttgcatgtt gattagaaat 480
104 attacgtttt tgttgaatga aagttgaacc taagttagct tttctttgtg atctgtttt 540
106 ttggaatctt cctatatata gaagtattat agattcta 578

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109 <210> SEQ ID NO: 4
110 <211> LENGTH: 645
111 <212> TYPE: DNA
112 <213> ORGANISM: Gossypium hirsutum
113 <220> FEATURE:
114 <221> NAME/KEY: unsure
115 <222> LOCATION: (1)..(645)
116 <223> OTHER INFORMATION: unsure at all n locations
117 <220> FEATURE:
118 <223> OTHER INFORMATION: Clone ID: LIB3543-001-Q1-K1-A2
119 <400> SEQUENCE: 4

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124 cgaacgcgtc ggaataaact caatgggtgc gtgaatttaa ggaagatact taactttca 60
126 agagccatca accttgaata cctttattgc agtgactgta aaagtttagt tgaactttg 120
128 aatggagatg attgtgtgga ttttggttaat ttaagggaaa ttaacttcaa tgggtgcgtg 180
130 aatttaaaa aaatacttaa tctttcaaga accatcaacc tgaataact ttattgaagt 240
132 gactgtaaaa gtttaqttga actttggaat ggaagatgatt gttgtgatt tttaattta 300
134 agggaaatta acttcaatgg gtgcgtgaga ttaaggaagg actttgttaa tttaacatcc 360
136 ttgtagtaat ttaagaaaaa tagctaactt ttcaagagcc atcaacctg aattcattga 420
138 ttgctctaat tgaataaagt tggttgaact tcttacctc gataatttg catctctga 480
140 tgccttaaat ctcatcttg acggaatgta tagctcagg aaattcctca ggtcccaagt 540
W--> 142 cacttttggt atttagattt atcaaaaacc agaatagnaa atatgtcgtt gcctttcgat 600
144 cccctatgta atcttcaaga cttagatata agtgaactca cggctc 645

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147 <210> SEQ ID NO: 5
148 <211> LENGTH: 607
149 <212> TYPE: DNA
150 <213> ORGANISM: Gossypium hirsutum
151 <220> FEATURE:
152 <223> OTHER INFORMATION: Clone ID: LIB3543-001-Q1-K1-A3
153 <400> SEQUENCE: 5

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157 cgaacgcgtc ggtttttttt tttaaaaaa tctttatata taataataat aaataataat 60

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163 caacettctc ccaactatac tctgtataga taaattcact aataatcaaa atcttqtta 240
165 tctactgaca aattacacag qcaacttgc cccatttacg ttttgattga agattgaac 300
167 aaccaaccaa cctcgaattta aagacqgaaa qtagtagcaa aaatctcagc gqatcgtat 360
169 tctcatttgc agatgcacac tttgattacg taaaaggaag tagtccttca aattgacaet 420
171 accgaaaqaa ttacatttat ccaacaaatc aacaagcaaa ggtcacagat gccatttcag 480
173 tgcatacttg ttgcctcaca ttgtcatttg cttttagtto atgtagagtg ccactcttt 540
175 qtgcattgtc acaaaaqgga qgtaaaatct aaaatagtc ctaatttgtat attttaacag 600
177 gcttctc 607

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180 <210> SEQ ID NO: 6

181 <211> LENGTH: 653

182 <212> TYPE: DNA

183 <213> ORGANISM: Gossypium hirsutum

185 <220> FEATURE:

186 <221> NAME/KEY: unsure

187 <222> LOCATION: (1)..(653)

188 <223> OTHER INFORMATION: unsure at all n locations

190 <220> FEATURE:

191 <223> OTHER INFORMATION: Clone ID: LIB3543-001-Q1-K1-A4

193 <400> SEQUENCE: 6

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195 gtgagaaaa aaaagcttca atctttggtt gttaagtggg tgaacaaaa aaaaaaatgg 60
197 agggcaaaaga ggaggatggt aaactaggag ccaacaagtt ctctgagaga caacctattg 120
199 ggaatcagc tcaaacagac aaggactaca aggagccacc accagcacca ttgtttgagc 180
201 ctggtgagct caagtcatgg tctttctaca gagcggcat tgetgagttt gttgctacct 240
203 tcttcttctt ttacatcaet gtcttgactg tcatgggtgt gtctcaatct aqaacaaat 300
205 gtactactgt tggatttcaa ggcattgett gggcctttgg tggcatgac tttgctcttg 360
207 ttatttgtac tgcctgcatt tcagggtgac atattaacc accctgtgac tttqqgttgt 420
209 tacttgcaag gaagctgtcc cttaacaagg cagtattcta catgatcatg caatgccttg 480
211 qtgcattctg tggagctggt qtagtgaaag gattogaagg agacagtaga tatgagatgt 540
W--> 213 tggngtggtg gagccaatgt tgtgaaccat ggctacacca aagggtgatg gtcttggtgc 600
Wtj> 215 tgaaatcatt gcacttttgn tcttgnctac actggtttct ctgctactga tgc 653

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218 <210> SEQ ID NO: 7

219 <211> LENGTH: 633

220 <212> TYPE: DNA

221 <213> ORGANISM: Gossypium hirsutum

223 <220> FEATURE:

224 <221> NAME/KEY: unsure

225 <222> LOCATION: (1)..(638)

226 <223> OTHER INFORMATION: unsure at all n locations

228 <220> FEATURE:

229 <223> OTHER INFORMATION: Clone ID: LIB3543-001-Q1-K1-A5

231 <400> SEQUENCE: 7

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233 cttaatttgc tgcctctttg ctgttctgtc tcaatcttgc tatttctata aqaatagttt 60
235 gggcttttct tttttgagtc aaactatcag tttaacttct ctatcctgc aaattctgaa 120
237 agaaaagqga tccgatctga tctgctqcaa atqggqgaga agtgggtggt gatgaaaacg 180
239 gctcagagc ctaccaacat tgcagtgttt aagtattggg qaaagagqga tgaagacctt 240
241 attttgccc tcaagatag catcagcttt actcttgatc ctgctcatct ctgagacaca 300
243 accacatct ctattagccc tctttctcag caaatctga tatggttcaa tggcaaaqaa 360

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RAW SEQUENCE LISTING

DATE: 01/23/2002

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Output Set: N:\CRF3\01232002\I849529A.raw

249 ctccatattg catcttataa caatttccct acagctgcaq gatttqcttc ctctctctct 540
 (Wf) 251 ggtnntgctt gtcttggttt tgcacttgca aagcttatga atgtcagtga agatgagagt 600
 (Wf) 253 caactttctg ctattgctag gcaagggttca ngcagtgc 638
 256 <210> SEQ ID NO: 8
 257 <211> LENGTH: 636
 258 <212> TYPE: DNA
 259 <213> ORGANISM: Gossypium hirsutum
 261 <220> FEATURE:
 262 <221> NAME/KEY: unsure
 263 <222> LOCATION: (1)..(636)
 264 <223> OTHER INFORMATION: unsure at all n locations
 266 <224> FEATURE:
 267 <223> OTHER INFORMATION: Clone ID: LIB3543-001-Q1-K1-A6
 269 <400> SEQUENCE 8
 271 ttcttcttca aattgtttt cccagttatt ttgtttgggt ttctttgata tctctctctc 60
 273 tcttcttca: ctccaatctt ttctgttct ttctttttt aaatttatat aaattttatg 120
 275 aatatattac gttttgggtc tgggttgatt tagtcagttt acttctttt ttatttataa 180
 277 tcttttttct atcatcaatc tcttttgat ttctataaca ttattacca ttattttaat 240
 279 attttgagct tatcacattg attttcgatt acccttttgt gagattcgaa aaaaaaaccc 300
 281 caittttttta cttatttttc gatgaggaga gggaggggtc tgcgcgcgcg cgtcatcccc 360
 283 gatggagaag aaccccaata cagaggtgtt cggaaaagac catggggtag attcgcagct 420
 285 gagatccgag acccgtggaa aaaaaccagg gtttggttag gtactttcga ttccgcgcga 480
 287 gaagcagctc gagcttacga taaggcggcg atgacaactg gtggaccgaa agccaaaacg 540
 (Wf) 289 aatttcccaa tcaatccctc gaatactanc cgctttccga tcgatcacca ccaccgtcgg 600
 291 ttatacctga tgggttaatt tcaagaccgc aaaatg 636
 294 <210> SEQ ID NO: 9
 295 <211> LENGTH: 663
 296 <212> TYPE: DNA
 297 <213> ORGANISM: Gossypium hirsutum
 299 <220> FEATURE:
 300 <221> NAME/KEY: unsure
 301 <222> LOCATION: (1)..(663)
 302 <223> OTHER INFORMATION: unsure at all n locations
 304 <224> FEATURE:
 305 <223> OTHER INFORMATION: Clone ID: LIB3543-001-Q1-K1-A7
 307 <400> SEQUENCE 9
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 311 caqacatacc attaaagqqt acagagattg agagaaaacta ctgttqqqac ttcccccacc 120
 313 cccaaaaaaa ctgtttttt tctgtctctc caataaaactg gaaggaatga acacagagac 180
 315 agggagagag agagagagag agagagagag agagagagag agagagagat gtgagggaga 240
 317 caqtatggtt aagttaatac aaggataaga ttgtatccat ctctcttatg ttctctttt 300
 319 ttctttgtata aattccagaa gaagcagatt caaggatatt gagaaqaagt ttctaaagat 360
 321 ttcttttaagc tagctatgqg aactcttgca atcagatacag aqgtatgqga ttctgatata 420
 323 taccctgctt tgggattcaa agaattgggt aaaggagttg ttggaactcc acgattttta 480
 325 tcaattcttt ctctgcttct tgaagaaatc gtccaaagaa acgaatgqga gtccgaagac 540
 (Wf) 327 gtgaacttca aanataatgt tgccatgttt catggggttaa gagctccacc ataagcatte 600
 329 agatttatat caatgagatc ttcaagtatg ctgctctcagc tcaatctgtt ttctctttt 660

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Input Set : D:\pa_00349.txt

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335 <211> LENGTH: 200

336 <212> TYPE: DNA

337 <213> ORGANISM: Gossypium hirsutum

339 <220> FEATURE:

340 <223> OTHER INFORMATION: Clone ID: LIB3543-001-Q1-K1-A8

342 <400> SEQUENCE: 10

344 tccatatacct tggatgggtt atctcaatgg tcatqctaatt accttttgtt gtactctttc 60

346 tctatgattc ttctttttct tgaactccat tgtcaaaagg cttgtaccaaa qttgtaattg 120

348 caqtaattaat gtatgcaata aaaactatat gtatggtaaa qtatgtattt ttattatttg 180

350 cttaacttcac tgggttggcc 200

353 <210> SEQ ID NO: 11

354 <211> LENGTH: 583

355 <212> TYPE: DNA

356 <213> ORGANISM: Gossypium hirsutum

358 <220> FEATURE:

359 <223> OTHER INFORMATION: Clone ID: LIB3543-001-Q1-K1-B1

361 <400> SEQUENCE: 11

363 gggaaaacta tgccttcga gtccacaacg tgggaataac gacctccttg aatttcagga 60

365 ttcaagagcca taatttactt cttycggaga gtgagggatc atatacggtg cagcaqaact 120

367 acactagctt agacatacat gtagggcagt catattcgtt tctgctaacc acggatcaga 180

369 atqcaagtag cgtattactac attgtagcaa gtgccagggt tgtgaatgaa tgcagtgga 240

371 aacgagttac cgggtgttgc attttgcgtt attctaattc gaaaggaaaag gcataccggc 300

373 cctccctcga tccaccgcag gatgaattcg acaaaacctt ttcaatgaac caagctagat 360

375 ctatcagatg gaatgtatct gccagtggtg ctgcgccgaa cccacagqga tcgttttagat 420

377 atqqtctgat taatgtgact gaagtttaag tcttgagaaa caaaccacca gagactattg 480

379 atqqaanaag acgagcgaca ctcaagtqga tatcctttgt caatcctgct acaccaatcc 540

381 ggccttggtg ccagtataag attaaaggag tatataagct tga 583

384 <210> SEQ ID NO: 12

385 <211> LENGTH: 672

386 <212> TYPE: DNA

387 <213> ORGANISM: Gossypium hirsutum

389 <220> FEATURE:

390 <221> NAME/KEY: unsure

391 <222> LOCATION: (1)..(672)

392 <223> OTHER INFORMATION: unsure at all n locations

394 <220> FEATURE:

395 <225> OTHER INFORMATION: Clone ID: LIB3543-001-Q1-K1-B10

397 <400> SEQUENCE: 12

399 tcaagcttca qcagaaqqaa atattcqtta aaagqpaaq attctqaagq aqaaqtaqt 60

401 tctctccact qqqgaaagaa qttgaqtggg tcatctccgq aqqgaactgaa caataqttct 120

403 agctccagtq attctatttc tgattcaagq cgaqccagaa attggtcttc taataqqqat 180

405 tqtgqtattg cttcttcagt taggaactcaq agatcaaaac qtaqtatagq tagtqqqaga 240

407 ctccctaacc aagcaaatgg aaataattta accttqaatg agtcacccat qgtcacccca 300

409 cagqcaacct aatctqatat tcttactqat atqaatqctc ctgttcccat agaaaactgcc 360

411 tcaactccta ctggttctta caqtccatca qqtatqatag atqaaqgttt acqaqgtttc 420

413 atgacttcca gtcttccaga agttagtggt taccactctt caatgaacca qqqtaqcttc 480

415 caacttaca atatsaatgq ctttgcagag gtattattag aacttgaagq aattgaacca 540

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Input Set : D:\pa_00349.txt

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L:142 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:213 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:215 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:251 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:253 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:289 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:303 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:327 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:419 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:489 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:516 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:518 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:585 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:654 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:820 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24
L:879 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:991 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29
L:993 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29
L:1134 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33
L:1168 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34
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L:1348 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39
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L:1469 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42
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L:1873 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54
L:1944 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56
L:1982 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57
L:1984 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57
L:2055 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59
L:2075 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60
L:2093 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60
L:2166 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62
L:2184 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63
L:2204 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63

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L:2240 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64

L:2264 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65